

HIGH-REFRACTIVE INDEX HARD COATING FILM

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Abstract

PURPOSE: To obtain the high-refractive index hard coating film which is resistant to weather and water and is not degraded in transparency by using the cured matter of a compsn. contg. a component A consisting of the multiple oxide of cerium oxide and titanium oxide and a component B consisting of an organosilicic compd. expressed by general formula and the hydrolyzate thereof.

CONSTITUTION: This hard coating film consists of the cured matter of the compsn. contg. the component A and the component B as its essential components. The component A consists of the multiple oxide of the cerium oxide and the titanium oxide. The weight ratio of the cerium oxide to the titanium oxide therein is ≥ 0.1 and ≤ 1.4 and the average particle size is $\geq 1\mu\text{m}$ and $\leq 100\mu\text{m}$. These oxides exist in the state of a sol in the film. The component B is ≥ 1 kinds selected from the group consisting of the organosilicic compd. expressed by general formula I or II and the hydrolyzate thereof. In the formulas, R and R' are 1 to 20C org. group; X is a hydrolyzable group; (a) is 0 or 1. Y is 2 to 40C org. group.

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